CLAIMS

1. A compound selected from the group consisting of

compounds of formula (I):

$$R^2$$
 R^3
 R^4
 R^6
 R^7
 R^5
 R^5
 R^6
 R^6
 R^6
 R^7

wherein

R¹, R², R³ and R⁴ are independently selected from hydrogen, halogen, hydroxy, alkyl, cycloalkyl, arylalkyl, aryl, alkoxy, alkoxyalkyl, haloalkyl, haloalkoxy, aryloxy, alkylcarbonyl, arylcarbonyl, alkylthio, arylthio, alkylsulfoxyl, arylsulfoxyl, alkylsulfonyl, arylsulfonyl, amino, nitro, cyano, alkoxycarbonyl, aryloxycarbonyl, mono- and dialkylaminocarbonyl, alkylcarbonylamino, carboxy and heterocyclyl, or R³ and R⁴ form together a -CH₂-CH₂- group;

with the proviso that at least one of R^1 , R^2 , R^3 and R^4 is not hydrogen; R^5 is hydrogen, alkyl or cycloalkyl;

R⁶ is hydrogen, alkyl, cycloalkyl, hydroxyalkyl or alkoxyalkyl; and R⁷ is hydrogen, halogen, alkyl, cycloalkyl, hydroxyalkyl, carboxyalkyl, carbamoylalkyl, alkoxycarbonylalkyl, formyl, alkylcarbonyl, alkoxy or alkylthio;

pharmaceutically acceptable salts of compounds of formula (I); pharmaceutically acceptable solvates of compounds of formula (I); and pharmaceutically acceptable esters of compounds of formula (I).

2. The compound according to claim 1, wherein R¹, R², R³ and R⁴ are independently selected from hydrogen, halogen, hydroxy, alkyl, cycloalkyl, arylalkyl, aryl, alkoxy, alkoxyalkyl, haloalkyl, haloalkoxy, aryloxy, alkylcarbonyl, arylcarbonyl, alkylthio, arylthio, alkylsulfoxyl, arylsulfoxyl, alkylsulfonyl, arylsulfonyl, amino,

nitro, cyano, alkoxycarbonyl, aryloxycarbonyl, mono- and di-alkylaminocarbonyl, alkylcarbonylamino, carboxy or heterocyclyl; with the proviso that at least one of the moieties R^1 , R^2 , R^3 and R^4 is not hydrogen; and R^6 is alkyl or cycloalkyl.

- 3. The compound according to claim 1, wherein R^1 , R^2 , R^3 and R^4 are independently selected from hydrogen, halogen, hydroxy, alkyl, cycloalkyl, arylalkyl, aryl, alkoxy, alkoxyalkyl, haloalkyl, haloalkoxy, aryloxy, alkylcarbonyl, arylcarbonyl, alkylthio, arylthio, alkylsulfoxyl, arylsulfoxyl, alkylsulfonyl, arylsulfonyl, amino, nitro, cyano, alkoxycarbonyl, aryloxycarbonyl, mono- and di-alkylaminocarbonyl, alkylcarbonylamino, carboxy or heterocyclyl; with the proviso that at least one of the moieties R^1 , R^2 , R^3 and R^4 is not hydrogen; and R^6 is alkyl or hydroxyalkyl.
- 4. The compound according to claim 3, wherein R^6 is methyl.
- 5. The compound according to claim 3, wherein \mathbb{R}^5 is hydrogen.
- 6. The compound according to claim 3, wherein R⁷ is hydrogen, alkyl or alkoxy.
- 7. The compound according to claim 6, wherein R^7 is hydrogen or methyl.
- 8. The compound according to claim 1, wherein R^1 , R^2 , R^3 and R^4 are independently selected from hydrogen, halogen, alkyl, haloalkyl, haloalkoxy and cyano or R^3 and R^4 form together a -CH₂-CH₂- group.
- 9. The compound according to claim 8, wherein R^1 , R^2 , R^3 and R^4 are independently selected from hydrogen, halogen, alkyl, trifluoromethyl and cyano.
- 10. The compound according to claim 9, wherein R^1 , R^2 , R^3 and R^4 are independently selected from hydrogen, methyl, ethyl, fluoro, chloro, cyano and trifluoromethyl.

- 11. The compound according to claim 10, wherein R^4 is methyl or ethyl and R^1 , R^2 and R^3 are hydrogen.
- 12. The compound according to claim 10, wherein R^4 is fluoro, cyano or trifluoromethyl and R^1 , R^2 and R^3 are independently selected from hydrogen or methyl.
- 13. A compound selected from the group consisting of

compounds of formula (I):

$$R^2$$
 R^3
 R^4
 R^6
 R^7
 R^5
 R^5
 R^1
 R^5
 R^6
 R^6
 R^7

wherein

 R^1 , R^2 , R^3 and R^4 are independently selected from hydrogen, methyl, ethyl, fluoro, chloro, cyano and trifluoromethyl, with the proviso that at least one of R^1 , R^2 , R^3 and R^4 is not hydrogen;

R⁵ is methyl;

R⁶ is hydrogen, alkyl, cycloalkyl, hydroxyalkyl or alkoxyalkyl; and R⁷ is hydrogen or methyl;

pharmaceutically acceptable salts of compounds of formula (I); pharmaceutically acceptable solvates of compounds of formula (I); and pharmaceutically acceptable esters of compounds of formula (I).

14. The compound according to claim 13, selected from the group consisting of (R)-6-ethyl-4-methyl-1,2,3,4-tetrahydro-pyrazino[1,2-a]indole, pharmaceutically acceptable salts thereof and pharmaceutically acceptable solvates thereof.

- 15. The compound according to claim 14, which is (R)-6-ethyl-4-methyl-1,2,3,4-tetrahydro-pyrazino[1,2-a]indole.
- 16. The compound according to claim 13, selected from the group consisting of (R)-4,6-dimethyl-1,2,3,4-tetrahydro-pyrazino[1,2-a]indole, pharmaceutically acceptable salts thereof and pharmaceutically acceptably solvates thereof.
- 17. The compound according to claim 16, which is (R)-4,6-dimethyl-1,2,3,4-tetrahydro-pyrazino[1,2-a]indole.
- 18. The compound according to claim 13, selected from the group consisting of (R)-7-chloro-4-methyl-1,2,3,4-tetrahydro-pyrazino[1,2-a]indole, pharmaceutically acceptable salts thereof and pharmaceutically acceptably solvates thereof.
- 19. The compound according to claim 18, which is (R)-7-chloro-4-methyl-1,2,3,4-tetrahydro-pyrazino[1,2-a]indole.
- 20. The compound according to claim 13, selected from the group consisting of (R)-4-methyl-6-trifluoromethyl-1,2,3,4-tetrahydro-pyrazino[1,2-a]indole hydrochloride, pharmaceutically acceptable salts thereof and pharmaceutically acceptably solvates thereof.
- 21. The compound according to claim 20, which is (R)-4-methyl-6-trifluoromethyl-1,2,3,4-tetrahydro-pyrazino[1,2-a]indole hydrochloride.
- 22. The compound according to claim 13, selected from the group consisting of (R)- 6-ethyl-8-fluoro-4-methyl -1,2,3,4-tetrahydro-pyrazino[1,2-a]indole hydrochloride, pharmaceutically acceptable salts thereof and pharmaceutically acceptably solvates thereof.
- 23. The compound according to claim 22, which is (R)- 6-ethyl-8-fluoro-4-methyl 1,2,3,4-tetrahydro-pyrazino[1,2-a]indole hydrochloride.

- 24. The compound according to claim 13, selected from the group consisting of (R)-8-fluoro-4,7-dimethyl-1,2,3,4-tetrahydro-pyrazino[1,2-a]indole hydrochloride, pharmaceutically acceptable salts thereof and pharmaceutically acceptably solvates thereof.
- 25. The compound according to claim 24, which is (R)-8-fluoro-4,7-dimethyl-1,2,3,4-tetrahydro-pyrazino[1,2-a]indole hydrochloride.
- 26. The compound according to claim 13, selected from the group consisting of (R)-6-fluoro-4,7-dimethyl-1,2,3,4-tetrahydro-pyrazino[1,2-a]indole hydrochloride, pharmaceutically acceptable salts thereof and pharmaceutically acceptably solvates thereof.
- 27. The compound according to claim 26, which is (R)-6-fluoro-4,7-dimethyl-1,2,3,4-tetrahydro-pyrazino[1,2-a]indole hydrochloride.
- 28. The compound according to claim 13, selected from the group consisting of (R)-4-methyl-1,2,3,4-tetrahydro-pyrazino[1,2-a]indole-6-carbonitrile hydrochloride, pharmaceutically acceptable salts thereof and pharmaceutically acceptably solvates thereof.
- 29. The compound according to claim 28, which is (R)-4-methyl-1,2,3,4-tetrahydro-pyrazino[1,2-a]indole-6-carbonitrile hydrochloride.
- 30. The compound according to claim 13, selected from the group consisting of (R)-4,6,10-trimethyl-1,2,3,4-tetrahydro-pyrazino[1,2-a]indole oxalate, pharmaceutically acceptable salts thereof and pharmaceutically acceptably solvates thereof.
- 31. The compound according to claim 30, which is (R)-4,6,10-trimethyl-1,2,3,4-tetrahydro-pyrazino[1,2-a]indole oxalate.
- 32. A compound according to claim 1, selected from the group consisting of (R)-6-thienyl-4-methyl-1,2,3,4-tetrahydro-pyrazino[1,2-a]indole;

- (R)-4,6-dimethyl-1,2,3,4-tetrahydro-pyrazino[1,2-a]indole;
- (R)-7-chloro-4-methyl-1,2,3,4-tetrahydro-pyrazino[1,2-a]indole;
- (R)-4-methyl-6-trifluoromethyl-1,2,3,4-tetrahydro-pyrazino[1,2-a]indole;
- (R)- 6-ethyl-8-fluoro-4-methyl -1,2,3,4-tetrahydro-pyrazino[1,2-a]indole;
- (R)-8-fluoro-4,7-dimethyl-1,2,3,4-tetrahydro-pyrazino[1,2-a]indole;
- (R)-6-fluoro-4,7-dimethyl-1,2,3,4-tetrahydro-pyrazino[1,2-a]indole;
- (R)-4-methyl-1,2,3,4-tetrahydro-pyrazino[1,2-a]indole-6-carbonitrile; and
- (R)-4,6,10-trimethyl-1,2,3,4-tetrahydro-pyrazino[1,2-a]indole.

33. A process for the preparation of a compound according to formula (I)

$$R^2$$
 R^3
 R^4
 R^6
 R^5
 R^5
 R^5
 R^5
 R^6
 R^6

wherein

R¹, R², R³ and R⁴ are independently selected from hydrogen, halogen, hydroxy, alkyl, cycloalkyl, arylalkyl, aryl, alkoxy, alkoxyalkyl, haloalkyl, haloalkoxy, aryloxy, alkylcarbonyl, arylcarbonyl, alkylthio, arylthio, alkylsulfoxyl, arylsulfoxyl, alkylsulfonyl, arylsulfonyl, amino, nitro, cyano, alkoxycarbonyl, aryloxycarbonyl, mono- and dialkylaminocarbonyl, alkylcarbonylamino, carboxy and heterocyclyl, or R³ and R⁴ form together a -CH₂-CH₂- group;

with the proviso that at least one of R^1 , R^2 , R^3 and R^4 is not hydrogen; R^5 is hydrogen, alkyl or cycloalkyl;

R⁶ is hydrogen, alkyl, cycloalkyl, hydroxyalkyl or alkoxyalkyl; and R⁷ is hydrogen, halogen, alkyl, cycloalkyl, hydroxyalkyl, carboxyalkyl, carbamoylalkyl, alkoxycarbonylalkyl, formyl, alkylcarbonyl, alkoxy or alkylthio;

comprising alkylation of a compound selected from the group consisting of

a)

wherein R^1 , R^2 , R^3 , R^4 , and R^7 are as defined above,

b)

$$R^3$$
 R^4
 R^7
 R^5
 R^5
 R^6

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wherein R¹, R², R³, R⁴, R⁵, and R⁷ are as defined above, and PG' is hydrogen or an OH-protecting group, and

c)

Z

wherein R¹, R², R³, R⁴, R⁵, and R⁷ are as defined above;

with a compound of formula (III)

wherein R⁶ is as defined as above.

34. A pharmaceutical composition comprising a compound of formula (I) as set out in claim 1 and a pharmaceutically acceptable carrier or excipient.